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Service & Parts #

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# **INSTRUCTION MANUAL**

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## **METAMORPHICFORCE PARTS LIST**

Part #	Description
224003	PCB
224100	Control Panel Overlay
224101	Player Instructions
224200	Marquee
224300	Upper Side Decal
224301	Lower Side Decal
224400	Manual
30255	Red Buttons
30256	Yellow Buttons
30258	Blue Buttons
30259	Green Buttons
30261	Micro Switches
30262	Palnuts
30335	Joysticks
40901	Speaker Harness
40906	3 & 4 Player Harness

# METAMORPHICFORCE WIRING HARNESS

*JAMMA HARNESS NOT SUPPLIED					
Solder Side ←			→ Parts Side		
GND	Α	1	GND		
GND	В	2	GND		
+5V DC	С	3	+5V DC		
+5V DC	D	4	+5V·DC		
NOT USED	E	5	NOT USED		
+ 12V DC	F	6	+ 12V DC		
*KEY	Н	7	*KEY		
(EMPTY)	J	8	COIN COUNTER		
(EMPTY)	Κ	9	(EMPTY)		
SPEAKER (-)	L	10	SPEAKER (+)		
(EMPTY)	М	11	(EMPTY)		
VIDEO GREEN	N	12	VIDEO RED		
VIDEO SYNC	Р	13	VIDEO BLUE		
(EMPTY)	R	14	VIDEO GROUND		
(EMPTY)	S	15	TEST SWITCH		
COIN 2	Т	16	COIN 1		
*2P START	U	17	1P START*		
2P UP	V	18	1P UP		
2P DOWN	W	19	1P DOWN		
2P LEFT	Х	20	1P LEFT		
2P RIGHT	Υ	21	1P RIGHT		
2P ATTACK	Z	22	1P ATTACK		
2P JUMP	а	23	1P JUMP		
NOT USED	b	24	NOT USED		
NOT USED	С	25	NOT USED		
NOT USED	d	26	NOT USED		
GND	е	27	GND		
GND	f	28	GND		

(BASE COLOR/LINE COLOR)

<sup>\*</sup>Start buttons are not used with 4 player 4 coin slot setting. See page 5.

# **METAMORPHICFORCE** SUB HARNESS (For 3 Players & 4 Players)

	1	Coin 3
	2	Empty
	3	3P Left
	4	3P Right
	5	3P Up
	6	3P Down
CN3	7	3P Attack
3P	8	3P Jump
CONTROLS	9	Not Used
	10	3P Start*
	11	Empty
	12	Empty
	13	Empty
	14	Ground
	15	Ground
	1	Coin 4
	2	Empty
	3	4P Left
	4	4P Right
	5	4P Up
	6	4P Down
CN4	7	4P Attack
4P	8	4P Jump
CONTROLS	9	Not Used
	10	4P Start
	11	Empty
	12	Empty
	13	Empty
	14	Ground
	15	Ground

<sup>\*</sup>Start buttons are not used with 4 player 4 coin slot setting.

#### TECHNICAL INFORMATION

(1) Required power capacity GND-Vcc 5V 4A or more GND-(+12V)

\*See the Wiring Diagram.

(2) Output

R (red) analog, positive

G (green) analog, positive

B (blue) analog, positive

SYNC. H-V complexed, negative

- (3) The monitor should be installed horizontally.
- (4) There is no sound volume knob on the PCB. Sound level should be adjusted in the Manual Test mode. (See page 5.)
- (5) Handle with care.

#### PLAYING INSTRUCTION

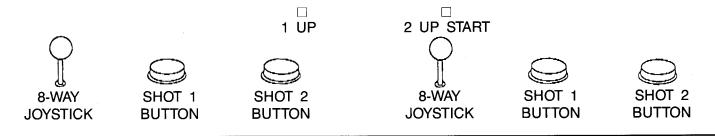
- This game can be adjusted for both 2 Player or 4 Player simultaneous play mode. Choose which mode
  you would like with the DIP Switch, when installed on site. (See page 8 on DIP Switch setting.)
- In 2 Player mode select the character you want to control on the screen. In 4 Player mode the control
  panel against the cabinet dictates the character you will control.
- Player(s) can join in at any time. You can continue to play by depositing additional coin(s) when the game is over.
- The character's energy is decreased when damaged by enemy's attack. When the energy points reach 0, the game is over. The quantity of energy you will get by depositing 1 coin can be adjusted in the GAME OPTION. You can also collect bonus points as well as more energy when depositing coin(s).
- By getting item(s) that appear during the game, you obtain a special bonus, like regaining energy, etc.
- The biggest feature of this game is the metamorphoses of characters into Beasts by getting Statues. At this point they can become the strongest Golden Beast by getting additional Statues.
- When characters change into Beasts there appears a "Beast Energy Meter." When this meter reaches the bottom the character dies, unless you deposit additional coin(s) to continue to play (this makes your character human again).

#### HOW TO CONTROL

- Control your character's movements by using the 8-way Joystick.
- Attack enemies with BUTTON 1. Combination of movement and/or timing of Joystick and BUTTON 1
  makes the character attack in special ways.
- Press BUTTON 2 to make your character JUMP. Pressing both buttons enables character to make special attacks.

#### **CONTROL PANEL INFORMATION**

• Use control panel with sufficient sets (2 or 4) of an 8-way Joystick and 2 buttons for each player. If the setting is COMMON coin slot mode, SHOT button can be used as START button.



#### **SELF TEST**

Normal: "OK" will be displayed. Then the game will start.

Abnormal: "BAD" will be displayed and self test will repeat. If "VERSION ERROR" is displayed, switch off and switch on again while continually pressing down on the TEST SWITCH on the PCB. Switching on with TEST SWITCH pressed causes the settings of the manual test to be initialized to default.

#### MANUAL TEST

(1) HOW TO START

After switching on the power, press the TEST SWITCH on the PCB or on the cabinet, and you will get the MAIN MENU of the Manual Test.

NOTE: Switching on with TEST SWITCH pressed causes the program in the EEPROM to be initialized to default.

- (2) HOW TO RETURN TO THE GAME MODE
  - Select "GAME MODE" on the MAIN MENU then press Player 1 SHOT 1 button to return to the game mode.
- (3) ITEMS AND HOW TO SELECT

Use player 1 JOYSTICK to move arrow to desired test and press player 1 SHOT button to initiate testing. Press player 1 SHOT button during or at the end of each test to return to the MAIN MENU.

MAIN MENU

I/O CHECK
SCREEN CHECK
COLOR CHECK
MASK ROM CHECK
GAME OPTIONS
COIN OPTIONS
SOUND OPTIONS
DIP SWITCH OPTIONS
GAME MODE

PLAYER 1 JOYSTICK=SELECT ITEM PLAYER 1 SHOT=DO CHECK ... Return to GAME MODE

#### (4) EXPLANATION OF THE ITEMS

The following screen below will appear. Select item to be modified with Player 1 JOYSTICK up/down and move JOYSTICK right/left to modify setting. Factory settings are shown in green, and modified results in red. After modification is completed, select "SAVE AND EXIT" and press Player 1 START button to save and return to MAIN MENU.

\* If you select "EXIT" instead of "SAVE AND EXIT" after modifying some settings, the message appears; "YOU DID NOT SAVE. DO YOU WANT TO SAVE? YES/NO." When you choose "YES," the screen shows "NOW SAVING" and returns to MAIN MENU. If you select "NO," "NO MODIFICATION" is shown and then MAIN MENU appears.

#### 1. I/O CHECK

Check the JOYSTICK and all buttons to see "1" when switched on. Press Player 1 and 2 SHOT buttons at the same time to return to MAIN MENU.

2. SCREEN CHECK

Adjust focus, alignment, size, etc. using the cross-hatch screen.

3. COLOR CHECK

Adjust color brightness so that the specified area will be colorless.

4. MASK ROM CHECK

Roms will be checked one after another, and the message "OK" or "BAD" will be displayed on the screen.

5. GAME OPTIONS

The following screen below will appear.

**GAME OPTIONS** 

PLAYER'S ENERGY LEVEL 100

DIFFICULTY LEVEL 4/MEDIUM VIDEO SCREEN FLIP NORMAL

LOOP SETTING GAME OVER AFTER

SECOND ROUND

FACTORY SETTINGS SAVE AND EXIT EXIT

PLYR 1 JOYSTICK UP/DOWN=SELECT OPTION JOYSTICK RIGHT/LEFT=MODIFY SETTING

... Player's energy level for 1 coin (50 to 400)

... Select out of 8 levels

... "NORMAL" or "UPSIDE DOWN"

.."GAME OVER AFTER FINAL STAGE"

"GAME OVER AFTER SECOND ROUND"

or "ENDLESS"

... Returned to factory settings

(Settings above are not always the factory settings.)

#### (6) COIN OPTIONS

When you select this item, the following screen will appear. The specifications are for COMMON coin slot (DIP SW2 off) and for INDEPENDENT coin slot (DIP SW2 on).

#### (INDEPENDENT)

COIN	OPT	IONS
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COIN MECHANISM INDEPENDENT

PREMIUM START NO

STARTING 1 COIN 1 CREDIT CONTINUATION 1 COIN 1 CREDIT

FACTORY SETTINGS SAVE AND EXIT

**EXIT** 

PLYR 1 JOYSTICK UP/DOWN=SELECT OPTION JOYSTICK RIGHT/LEFT=MODIFY SETTING

- ...Indication for INDEPENDENT setting.

  Modified with DIP Switch.
- ...Set for PREMIUM START. "NO" or
  - "YES 1" to "YES 4."
- ... Set the number of credit for Start and Continue (1-8).

Same as above "GAME OPTION"

#### (COMMON)

#### COIN OPTIONS

FREE PLAY NO COIN MECHANISM COMMON

COIN SLOT 1 1 COIN 1 CREDIT COIN SLOT 2 1 COIN 1 CREDIT

FACTORY SETTINGS SAVE AND EXIT

**EXIT** 

PLYR 1 JOYSTICK UP/DOWN=SELECT OPTION JOYSTICK RIGHT/LEFT=MODIFY SETTING

- ...Set for Free Play. "YES" or "NO"
- ...Indication for COMMON setting.

  Modified with DIP Switch.
- ...Set the number of credit for Start and Continue (1-8).

Same as above "GAME OPTION"

#### \*COIN SETTING OPTIONS

COIN(S)	1	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4
CREDIT(S)	1	2	3	4	5	6	7	1	3	5	1	2	4	1	3	5

#### (7) SOUND OPTIONS

The following screen below will appear.

SOUND OPTION	
SOUND IN ATTRACT MODE ALL THE TIME	
SOUND SCALE CHECK SOUND VOLUME=25  FACTORY SETTING SAVE AND EXIT	
EXIT	1
PLYR 1 JOYSTICK UP/DOWN=SELECT OPTION JOYSTICK RIGHT/LEFT=MODIFY SETTING	

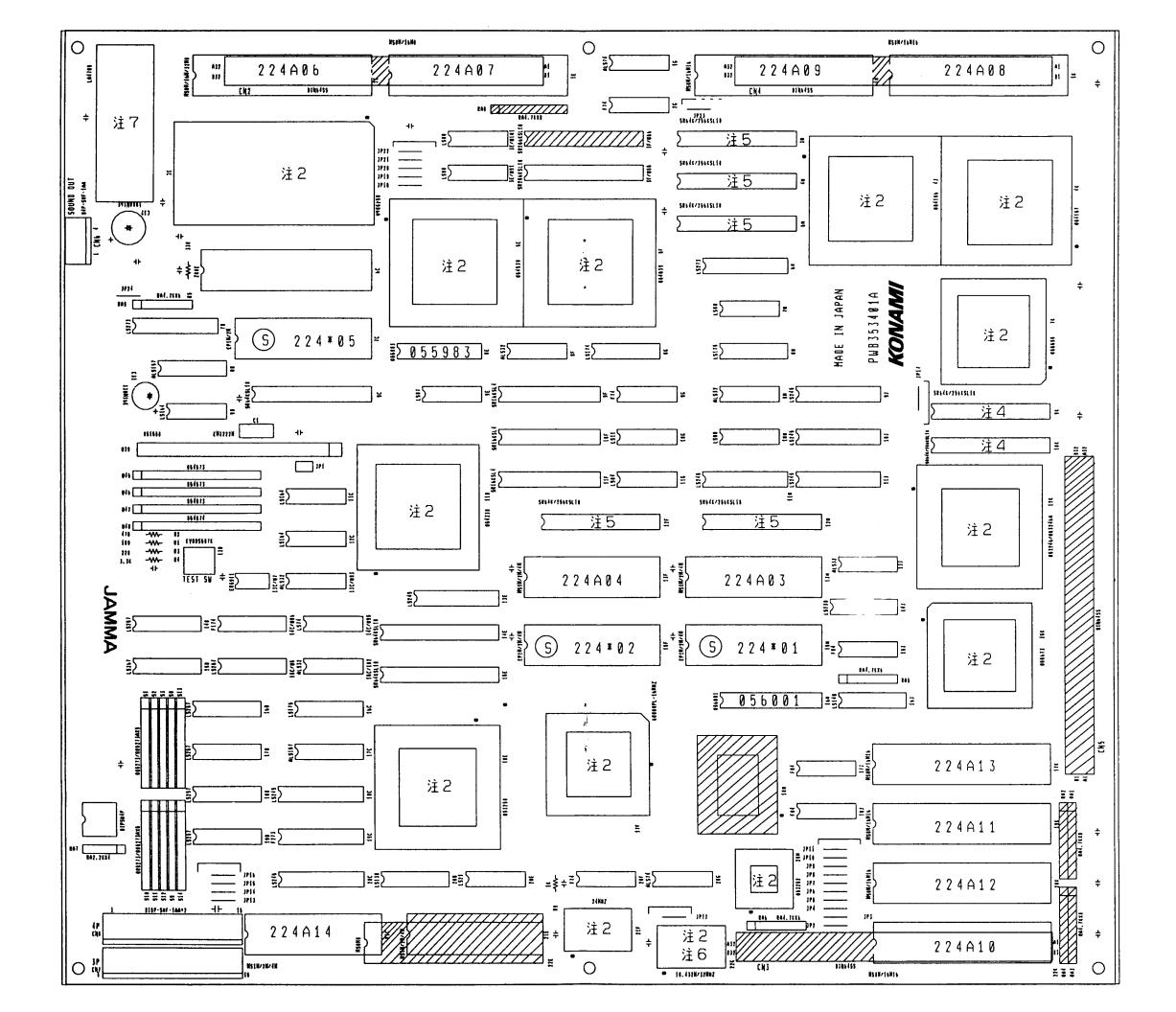
- ...Select out of the following 4 types
  "ALL THE TIME," "ONCE EVERY 3 CYCLES,"
  - "ONCE EVERY 5 CYCLES," "COMPLETELY OFF"
- .. "Do re mi...do" will sound
- ...Sound Volume adjustment (0-29)
- ... Returned to Factory Settings

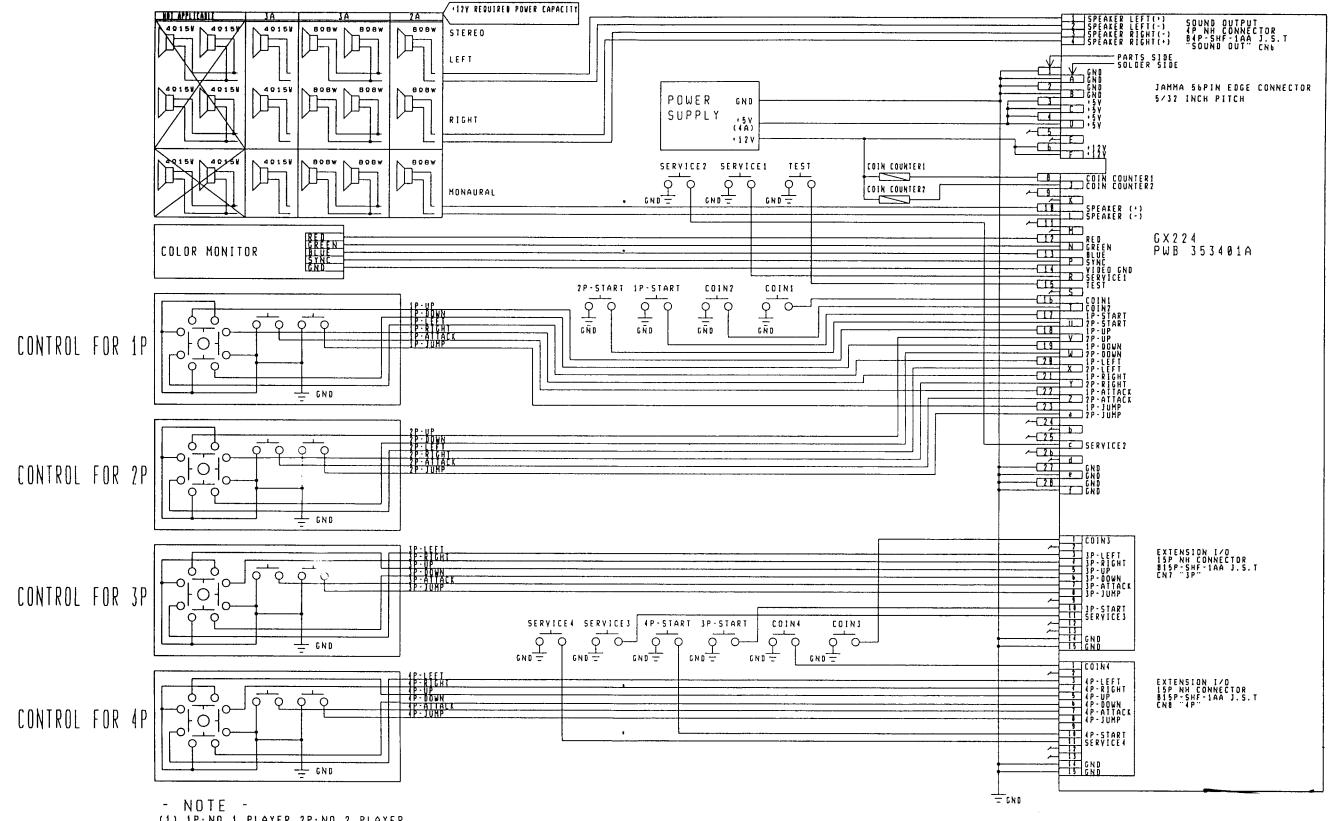
(Settings above are not always the factory settings.)

#### (8) DIP SWITCH SETTING

You can check the settings of DIP SWITCH at this item. You can change the settings with DIP SWITCH as per the following:

DIP SWITCH	CONTENTS	DIP SW/ON	DIP SW/OFF
SW1	SOUND OUTPUT	STEREO	MONAURAL
SW2	COIN SLOT SET	INDEPENDENT	COMMON
SW3	NUMBER OF PLAYERS	4P	2P
SW4	ADD COIN(s) DURING PLAY	POSSIBLE	IMPOSSIBLE





- (1) 1P:NO.1 PLAYER 2P:NO.2 PLAYER 3P:NO.3 PLAYER 4P:NO.4 PLAYER
- (2) SURGE KILLER DIODES FOR COIN COUNTER INSTALLED ON THE PCB.
- (3) YOU CANNOT USE BOTH STEREO AND MONAURAL OUTPUTS AT THE SAME TIME.
- (4) DO NOT CONNECT SPEAKER(-) TO GND. SPEAKER(-)

